

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1           Claim 1. (Previously Presented) A process for controlling a transfer voltage in an image  
2           forming apparatus, the image forming apparatus comprising an electrification roller electrifying a  
3           surface of a photosensitive drum, a laser scanning unit forming an electrostatic latent image on the  
4           surface of the photosensitive drum, a developing machine making the electrostatic latent image  
5           visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image  
6           transferred to the recording paper, the process comprising the steps of:

7                 storing within a memory image data to be printed when a print demand is received;

8                 detecting the kind of paper selected by a user;

9                 editing by reducing the number of pixels of the image data at a certain rate when the detected  
10           paper is thick; and

11                transmitting the edited image data to the laser scanning unit and performing the printing work  
12           for the edited image data.

1           Claim 2. (Previously Presented) The process according to claim 1, wherein the editing step  
2           is performed using economy mode in which the pixels of the light scanned are equally split into an  
3           integer number of pixels in order to represent one pixel of the image data, and only a certain number

4 of pixels among the equally split pixels of the light are scanned.

1 Claim 3. (Previously Presented) The process according to claim 1, wherein the editing step  
2 is performed using resolution enhancement technology mode in which the print area is split into a  
3 plurality of small areas, and some pixels among the total pixels for each resolution included in the  
4 respective small areas are removed.

1 Claim 4. (Previously Presented) A process for controlling a transfer voltage in an image  
2 forming apparatus, the image forming apparatus comprising a electrification roller electrifying a  
3 surface of a photosensitive drum, a laser scanning unit forming an electrostatic latent image on the  
4 surface of the photosensitive drum, a developing machine making the electrostatic latent image  
5 visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image  
6 transferred to the recording paper, the process comprising the steps of:

7 storing at a memory image data to be printed when a print demand is received;

8 detecting the kind of paper selected by a user;

9 transmitting the image data to the laser scanning unit when the detected paper is a thick; and

10 decreasing the amount of the light emitted from the laser scanning unit at a predetermined  
11 rate and performing the printing work.

1 Claim 5. (Previously Presented) A process for controlling a transfer voltage in an image  
2 forming apparatus, the image forming apparatus comprising a electrification roller electrifying a

3 surface of a photosensitive drum, a laser scanning unit forming an electrostatic latent image on the  
4 surface of the photosensitive drum, a developing machine making the electrostatic latent image  
5 visible, a transfer roller transferring the image to a recording paper and a fixer fixing the image  
6 transferred to the recording paper, the process comprising the steps of:

7 storing image data to be printed at a memory when a print demand is received;

8 detecting the kind of paper selected by a user;

9 transmitting the image data to the laser scanning unit when the detected paper is a thick; and

10 increasing a developing voltage applied to the developing machine to a predetermined  
11 voltage level and then performing the printing work.

1 Claim 6. (Previously Presented) A process according to claim 5, wherein the predetermined  
2 voltage level is equal to or less than -250 volts.

1 Claim 7. (Previously Presented) A process in an image forming apparatus, comprising:  
2 storing within a memory image data to be printed on a printable medium by said  
3 image forming apparatus;  
4 making a determination of whether a grade of the printable medium selected by a user  
5 of said image forming apparatus has a first thickness or has a second and greater thickness;  
6 electrifying a surface of a photosensitive drum;  
7 when said determination establishes that the printable medium selected has said  
8 second and greater thickness, editing said image data by reducing to a reduced number of pixels, a

9 quantity of pixels representing said image data, and driving a laser scanning unit to form an  
10 electrostatic latent image on said surface of said photosensitive drum in correspondence with said  
11 reduced number of pixels;

12 driving a developer to convert said electrostatic latent image into a visible image;

13 driving a transfer roller to transfer said visible image to the printable medium  
14 selected; and

15 fixing said visible image transferred to the printable medium selected.

 Claim 8. (Previously Presented) The process according to claim 7, further comprised of:

2 generating said edited data by equally dividing said quantity of pixels into an integer  
3 number of pixels with each said integer number of pixels representing a different pixel of said image  
4 data; and

5 scanning onto said surface of said photosensitive drum only a certain number of  
6 pixels among each said integer number of pixels.

1 Claim 9. (Previously Presented) The process according to claim 7, further comprised of  
2 editing said image data by:

3 dividing said print area into a plurality of smaller areas each exhibiting a  
4 corresponding resolution and each represented by a different group of said quantity of pixels; and  
5 removing some of said pixels from within each said group.

1 Claim 10. (Previously Presented) The process according to claim 9, further comprising of  
2 when said determination establishes that the printable medium selected has said first thickness,  
3 performing a normal printing work without editing said image data by not reducing the number of  
4 pixels, the quantity of pixels representing said image data.

1 Claim 11. (Previously Presented) A process in an image forming apparatus, comprising:  
2 storing within a memory image data to be printed on a printable medium by said  
3 image forming apparatus;  
4 making a determination of whether a grade of the printable medium selected by a user  
5 of said image forming apparatus has a first thickness or has a second and greater thickness;  
6 electrifying a surface of a photosensitive drum;  
7 when said determination establishes that the printable medium selected has said  
8 second and greater thickness, transmitting said image data to a laser scanning unit and forming an  
9 electrostatic latent image on said surface of said photosensitive drum after decreasing an amount of  
10 light emitted by said laser scanning unit at a predetermined rate;  
11 driving a developer to convert said electrostatic latent image into a visible image;  
12 driving a transfer roller to transfer said visible image to the printable medium  
13 selected; and  
14 fixing said visible image transferred to the printable medium selected.

1 Claim 12. (Previously Presented) The process according to claim 11, further comprising of

2 lowering an engagement force of a toner coated onto the photosensitive surface of said  
3 photosensitive drum.

1 Claim 13. (Previously Presented) A process for controlling transfer voltage in an image  
2 forming apparatus, comprising:

3 storing within a memory image data to be printed on a printable medium by said  
4 image forming apparatus;

5 making a determination of whether a grade of the printable medium selected by a user  
6 of said image forming apparatus has a first thickness or has a second and greater thickness;

7 electrifying a surface of a photosensitive drum;

8 transmitting said image data to a laser scanning unit and forming an electrostatic  
9 latent image on said surface of said photosensitive drum;

10 driving a developer to convert said electrostatic latent image into a visible image by  
11 applying a first developing voltage to a developing roller when said determination indicates that the  
12 printable medium selected has said first thickness, and by applying a second developing voltage  
13 exhibiting a greater magnitude than said first voltage to said developing roller when said  
14 determination indicates that the printable medium selected has said second and greater thickness;

15 driving a transfer roller to transfer said visible image to the printable medium  
16 selected; and

17 fixing said visible image transferred to the printable medium selected.

1 Claim 14. (Previously Presented) A process according to claim 13, further comprised of said  
2 second developing voltage being equal to or less than -250 volts.

1 Claim 15. (Previously Presented) An image forming apparatus, comprising:  
2 a memory storing image data to be printed on a printable medium by said image forming  
3 apparatus;

4 a photosensitive drum bearing an exterior circumferential surface, positioned along a path  
5 of conveyance of a printable medium selected by a user through said image forming apparatus;

6 an electrification roller positioned to electrify said surface of said photosensitive drum;

7 a controller responding to passage of a printable medium along said path by making a  
8 determination of whether a grade of the printable medium selected by a user of said image forming  
9 apparatus has a first thickness or has a second and greater thickness, when said determination  
10 establishes that the printable medium selected has said second and greater thickness, editing said  
11 image data by reducing to a reduced number of pixels, a quantity of pixels representing said image  
12 data, and driving a laser scanning unit to form an electrostatic latent image on said surface of said  
13 photosensitive drum in correspondence with said reduced number of pixels;

14 a laser scanning unit forming an electrostatic latent image on said surface of said  
15 photosensitive drum in accordance with output data received from said controller;

16 a developer disposed to convert said electrostatic latent image into a visible image;

17 a transfer roller disposed along said path opposite from said photosensitive drum, driven to  
18 transfer said visible image to the printable medium selected; and

19 a fixing unit positioned along said path to fix said visible image transferred to the printable  
20 medium selected.

1 Claim 16. (Previously Presented) The apparatus according to claim 15, further comprised  
2 of said controller editing said image data by generating said edited data by equally dividing said  
3 quantity of pixels into an integer number of pixels with each said integer number of pixels  
4 representing a different pixel of said image data, and scanning onto said surface of said  
5 photosensitive drum only a certain number of pixels among each said integer number of pixels.

1 Claim 17. (Previously Presented) The apparatus according to claim 15, further comprised  
2 of said controller editing said image data by dividing said print area into a plurality of smaller areas  
3 each exhibiting a corresponding resolution and each represented by a different group of said quantity  
4 of pixels, and removing some of said pixels from within each said group.

1 Claim 18. (New) The process according to claim 5, with the increasing of the developing  
2 voltage level being applied to a developing roller in accordance with the kind of paper being  
3 detected.